

ABSTRACT

An internal gear pump in which the sliding resistance can be reduced, and the occurrence of noise and a decrease in the pump efficiency can be suppressed to the minimum. The internal gear pump includes an inner rotor having external teeth, and an outer rotor having internal teeth, and draws and discharges fluid to convey the fluid while the inner rotor and the outer rotor rotate in engagement with each other. The internal diameter of a hole formed in a casing for accommodating the inner rotor and the outer rotor is set to be 0.1 mm to 0.6 mm larger than that the external diameter of the outer rotor. When "er" is an eccentric distance between the inner rotor and the outer rotor and "eh" is an eccentric distance between the inner rotor and the hole formed in the casing, the following inequality is satisfied: $0.005 \text{ mm} \leq (eh - er) \leq 0.030 \text{ mm}$.